

FACT SHEET FOR STATE WASTE DISCHARGE PERMIT ST-7442
McEVOY OIL COMPANY

GENERAL INFORMATION	
Applicant Name and Address	McEvoy Oil Company 17720 NE 65 th Street, Suite 201 Redmond, WA 98052
Facility Location	130 Samish Way Bellingham, WA
Type of Facility	Groundwater Remediation
Facility Discharge Location	Latitude: 48° 44' 8.3" N Longitude: 122° 28' 15" W
Treatment Plant Receiving Discharge	City of Bellingham POTW
Contact at Facility	Name: Dawna Leong, Delta Environmental Telephone #: (425) 558-0134

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INTRODUCTION

This fact sheet is a companion document to the Draft State Waste Discharge Permit No. ST-7442. The Department of Ecology (the Department) is proposing to issue this permit, which will allow discharge of pretreated wastewater to the City of Bellingham's POTW. This fact sheet explains the nature of the proposed discharge, the Department's decisions on limiting the pollutants in the wastewater, and the regulatory and technical bases for those decisions.

Washington State law (RCW 90.48.080 and 90.48.160) requires that a permit be issued before discharge of wastewater to waters of the state is allowed. This statute includes commercial or industrial discharges to sewerage systems operated by municipalities or public entities, which discharge into public waters of the state. Regulations adopted by the state include procedures for issuing permits and establish requirements which are to be included in the permit (Chapter 173-216 WAC).

This fact sheet and draft permit are available for review by interested persons as described in Appendix A—Public Involvement Information. Process Flow Diagrams are enclosed in Appendix B.

The fact sheet and draft permit have been reviewed by the Permittee. Errors and omissions identified in these reviews have been corrected before going to public notice. After the public comment period has closed, the Department will summarize the substantive comments and the response to each comment. The summary and response to comments will become part of the file on the permit and parties submitting comments will receive a copy of the Department's response. Changes to the permit will be addressed in Appendix C—Response to Comments.

DESCRIPTION OF THE FACILITY

McEvoy Oil Company began operating a gas station at this site in 1960. The site was sold and redeveloped and is currently an operating McDonald's restaurant.

The former McEvoy gas station consisted of four underground storage tanks (three 10,000-gallon and one 6,000-gallon UST). In March 2001, water was observed in one of the 10,000-gallon USTs. Following this observation, pressure testing of the UST system was performed, which indicated the tank was not properly sealed. Subsequently, the UST was taken out of service until decommissioning could be performed. The decommissioning was performed in September 2002. Following the removal of the USTs, approximately 2,150 tons of petroleum hydrocarbon-impacted soil was removed from the UST basin and from beneath the dispenser islands, and disposed off-site. Analytical data indicated that residual petroleum hydrocarbon concentrations in subsurface soil at the perimeter of the final excavation exceeded MTCA Method A cleanup levels. Additional excavation was precluded by property boundaries to the east, west, and south. An environmental assessment was concluded and determined that hydrocarbon-affected groundwater is present within fractures in the sandstone formation underlying the site.

McEvoy Oil Company proposes to treat the contaminated soil and groundwater. The purpose of this permit is to authorize discharge of the treated water from the petroleum-contaminated soil and groundwater remediation operation to Bellingham Wastewater Treatment Plant.

PROPOSED REMEDIAL TREATMENT

The facility proposes to utilize a pump and treat treatment system. Contaminated groundwater is proposed to be extracted through an extraction well installed within the deepest section of the former UST excavation area. The extracted groundwater is then routed to an oil/water separator to remove hydrocarbons. Hydrocarbons will be routed to a tank for temporary storage. Effluent from the oil/water separator will be routed to a batch tank, where the water will be forwarded through two 1,000-pound activated carbon units in series. Treated groundwater would then be discharged to the Bellingham sanitary sewer.

WASTEWATER CHARACTERIZATION

An initial groundwater sample was collected to fulfill the requirements of the permit application. The sample analysis indicated the following results. Future samples are expected to contain higher concentrations.

<u>Parameters</u>	<u>Influent Concentration</u>
Lead	0.017 mg/L
pH	6.8 standard units
Vinyl Chloride	<2 µg/L
Benzene	<2 µg/L
Ethylbenzene	<2 µg/L
Toluene	<2 µg/L
TPH-Gx	ND (<30 µg/L)
TPH-Dx	ND (<130 µg/L)

PERMIT STATUS

This is a new facility. An application for a permit was submitted to the Department on May 23, 2003, and amended on August 25, 2003. The application was accepted by the Department on August 27, 2003.

POTW's RECEIVING WATER

The treated groundwater will be ultimately discharged to Bellingham Bay after receiving secondary treatment from the Bellingham POTW's Sewage Treatment Plant. The Bellingham POTW is regulated under NPDES Permit No. WA-002374-4 for their secondary treatment oxygen activated sludge plant. The plant has a design capacity of 37 MGD for secondary treatment and it is currently operating at an average flow of the maximum month of 20 MGD.

PROPOSED PERMIT LIMITATIONS

State regulations require that limitations set forth in a waste discharge permit must be based on the technology available to treat the pollutants (technology-based) or be based on the effects of the pollutants to the POTW (local limits). Wastewater must be treated using all known, available, and reasonable treatment (AKART) and not interfere with the operation of the POTW.

The minimum requirements to demonstrate compliance with the AKART standard and specific design criteria for this facility were determined in the permit application package submitted on May 23, 2003. The application was amended on August 25, 2003.

The more stringent of the local limits-based or technology-based limits are applied to each of the parameters of concern. Each of these types of limits is described in more detail below.

TECHNOLOGY-BASED EFFLUENT LIMITATIONS

All waste discharge permits issued by the Department must specify conditions requiring available and reasonable methods of prevention, control, and treatment of discharges to waters of the state (WAC 173-216-110). The Department has determined that the proposed wastewater is similar in characteristics to the wastewater from Leaking Underground Storage Tank (LUST) Cleanup Sites. Therefore, the technology-based standards for LUST Cleanup sites have been applied to McEvoy Oil Company's discharge. The following limitations are necessary to satisfy the requirement for AKART:

Flow	14,400 gpd
Benzene	5 µg/L
TPH-G	1.0 mg/L
BTEX	100 µg/L

BTEX means Benzene, Toluene, Ethyl Benzene, and total Xylenes.

Based on the information presented on the application, the maximum daily flow will be set at 14,400 gpd.

The TPH-G data presented on the submitted application indicates that the proposed system is capable of removing TPH-G to 1 mg/L. The Department will reevaluate this limit during the next permit term. If data indicates that the system is capable of achieving TPH-G concentrations less than 1 mg/L, the Department will establish a performance-based limit for TPH-G.

No effluent limit for lead is set at this time. Monitoring-only is required.

EFFLUENT LIMITATIONS BASED ON LOCAL LIMITS

In order to protect the City of Bellingham's POTW from pass-through, interference, concentrations of toxic chemicals that would impair beneficial or designated uses of sludge, or potentially hazardous exposure levels, limitations for certain parameters are necessary.

These limitations are based on local limits established by the POTW and codified in ordinance. Applicable limits for this discharge include the following:

pH between 6 and 10 standard units

Pollutant concentrations in the proposed discharge with technology-based controls in place are not expected to cause problems at the receiving POTW such as interference, pass-through or hazardous exposure to POTW workers nor are they expected to result in unacceptable pollutant levels in the POTW's sludge.

MONITORING REQUIREMENTS

Monitoring, recording, and reporting are specified to verify that the treatment process is functioning correctly, and that effluent limitations are being achieved (WAC 173-216-110).

The monitoring schedule is detailed in the proposed permit under Condition S2. Specified monitoring frequencies takes into account the quantity and variability of the discharge, the treatment method, past compliance, significance of pollutants, and cost of monitoring.

OTHER PERMIT CONDITIONS

REPORTING AND RECORDKEEPING

The conditions of S3 are based on the authority to specify appropriate reporting and record keeping requirements to prevent and control waste discharges [WAC 273-216-110 and 40 CFR 403.12 (e),(g), and (h)].

OPERATIONS AND MAINTENANCE

The proposed permit contains Condition S4 as authorized under RCW 90.48.110, WAC 173-220-150, Chapter 173-230 WAC, and WAC 173-240-080. It is included to ensure proper operation and regular maintenance of equipment, and to ensure that adequate safeguards are taken so that constructed facilities are used to their optimum potential in terms of pollutant capture and treatment.

PROHIBITED DISCHARGES

Certain pollutants are prohibited from being discharged to the POTW. These include substances which cause pass-through or interference, pollutants which may cause damage to the POTW or harm to the POTW workers (Chapter 173-216 WAC) and the discharge of designated dangerous wastes not authorized by this permit (Chapter 173-303 WAC).

DILUTION PROHIBITED

The Permittee is prohibited from diluting its effluent as a partial or complete substitute for adequate treatment to achieve compliance with permit limitations.

SPILL PLAN

The Permittee may be storing a quantity of chemicals that have the potential to cause water pollution if accidentally released. The Department has the authority to require the Permittee to develop best management plans to prevent accidental releases under Section 402(a)(1) of the Federal Water Pollution Control Act (FWPCA) and RCW 90.48.080.

The proposed permit requires the Permittee to develop and implement a plan for preventing the accidental release of pollutants to state waters and for minimizing damages if such a spill occurs.

GROUND WATER QUALITY EVALUATION

In accordance with WAC 173-200-080, the permit requires the Permittee to prepare and submit an annual ground water quality report for departmental review. The report shall document in plan view the benzene ground water contamination plume and shall contain an evaluation of the effectiveness of the treatment system.

GENERAL CONDITIONS

General Conditions are based directly on state laws and regulations and have been standardized for all industrial waste discharge to POTW permits issued by the Department.

Condition G1 requires responsible officials or their designated representatives to sign submittals to the Department. Condition G2 requires the Permittee to allow the Department to access the treatment system, production facility, and records related to the permit. Condition G3 specifies conditions for modifying, suspending or terminating the permit. Condition G4 requires the Permittee to apply to the Department prior to increasing or varying the discharge from the levels stated in the permit application. Condition G5 requires the Permittee to construct, modify, and operate the permitted facility in accordance with approved engineering documents. Condition G6 prohibits the Permittee from using the permit as a basis for violating any laws, statutes, or regulations. Conditions G7 and G8 relate to permit renewal and transfer. Condition G9 requires the Permittee to control production or wastewater discharge in order to maintain compliance with the permit. Condition G10 prohibits the reintroduction of removed pollutants into the effluent stream for discharge. Condition G12 describes the penalties for violating permit conditions.

PUBLIC NOTIFICATION OF NONCOMPLIANCE

A list of all industrial users which were in significant noncompliance with Pretreatment Standards or Requirements during any of the previous four quarters may be annually published by the Department in a local newspaper. Accordingly, the Permittee is apprised that noncompliance with this permit may result in publication of the noncompliance.

RECOMMENDATION FOR PERMIT ISSUANCE

This proposed permit meets all statutory requirements for authorizing a wastewater discharge, including those limitations and conditions believed necessary to control toxics. To be consistent with statewide planning efforts, the Department proposes that the permit be issued for a period of five (5) years. Therefore, this permit will be issued with an expiration date of June 30, 2009.

REFERENCES FOR TEXT AND APPENDICES

1. EPA Report, EPA/600/2-88/014. A selective guide for volatization technologies for water treatment.
2. State Waste Discharge Permit Application submitted by McEvoy Oil Company on May 23, 2003.
3. State Waste Discharge Permit Program, Chapter 173-216, May 1988.

APPENDIX A—PUBLIC INVOLVEMENT INFORMATION

The Department has tentatively determined to issue a new permit to the applicant listed on page one of this fact sheet. The permit contains conditions and effluent limitations which are described in the rest of this fact sheet.

Public Notice of Application (PNOA) was published on September 17 and 24, 2003, in *The Bellingham Herald* to inform the public that an application had been submitted and to invite comment on the reissuance of this permit.

The Department published a Public Notice of Draft (PNOD) on January 29, 2004, in *The Bellingham Herald* to inform the public that a draft permit and fact sheet were available for review. Interested persons were invited to submit written comments regarding the draft permit. The draft permit, fact sheet, and related documents were available for inspection and copying between the hours of 8:00 a.m. and 5:00 p.m. weekdays, by appointment, at the regional office listed below. Written comments were mailed to:

Water Quality Permit Coordinator
Department of Ecology
Northwest Regional Office
3190 - 160th Avenue SE
Bellevue, WA 98008-5472

Any interested party may comment on the draft permit or request a public hearing on this draft permit within the thirty (30)-day comment period to the address above. The request for a hearing shall indicate the interest of the party and reasons why the hearing is warranted. The Department will hold a hearing if it determines there is a significant public interest in the draft permit (WAC 173-216-100). Public notice regarding any hearing will be circulated at least thirty (30) days in advance of the hearing. People expressing an interest in this permit will be mailed an individual notice of hearing.

The Department will consider all comments received within thirty (30) days from the date of public notice of draft indicated above, in formulating a final determination to issue, revise, or deny the permit. The Department's response to all significant comments is available upon request and will be mailed directly to people expressing an interest in this permit.

Further information may be obtained from the Department by telephone, 425-649-7201 or by writing to the address listed above.

APPENDIX B

PROCESS FLOW DIAGRAM

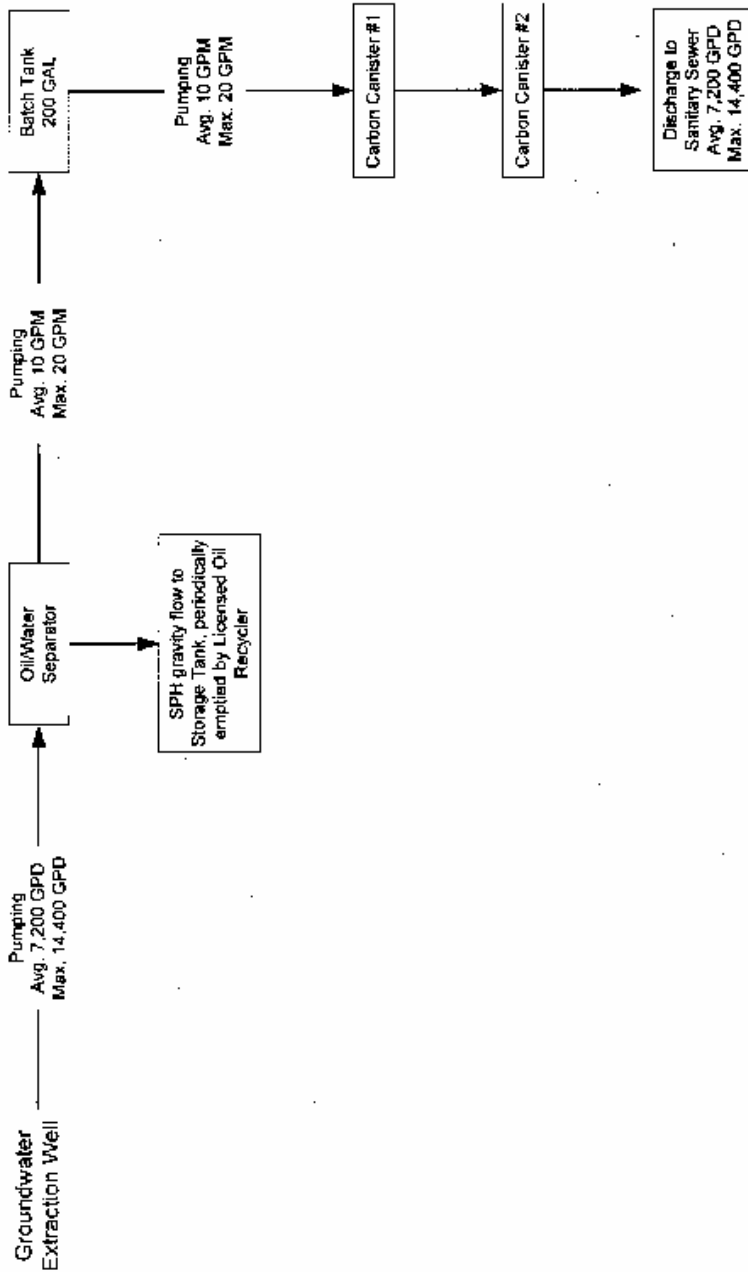

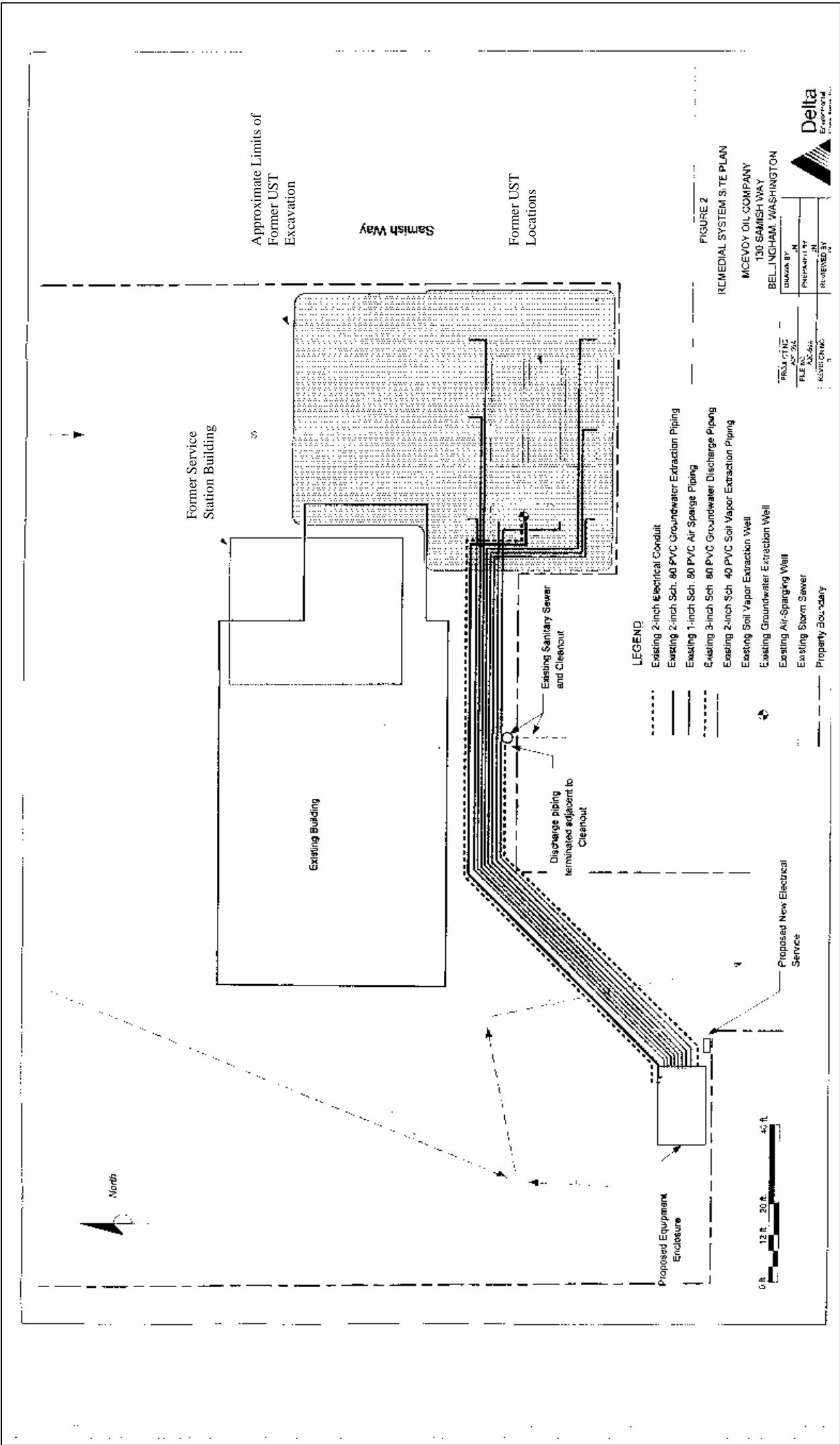


FIGURE 1

SYSTEM SCHEMATIC FLOW CHART

McEVY OIL COMPANY
130 SAMISH WAY
BELLINGHAM, WASHINGTON

PROJECT NO. A20-58A	DRAWN BY JN	 Delta Environmental Consultants, Inc.
FILE NO. A20-58A	PREPARED BY JN	
REVISION NO. 0	REVIEWED BY DL	



APPENDIX C

RESPONSE TO COMMENTS